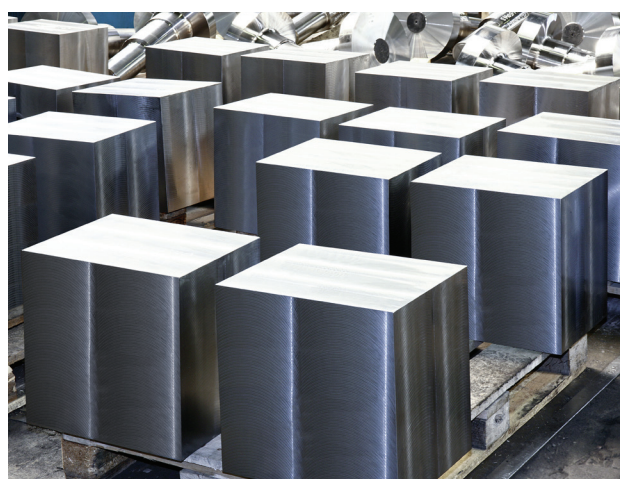
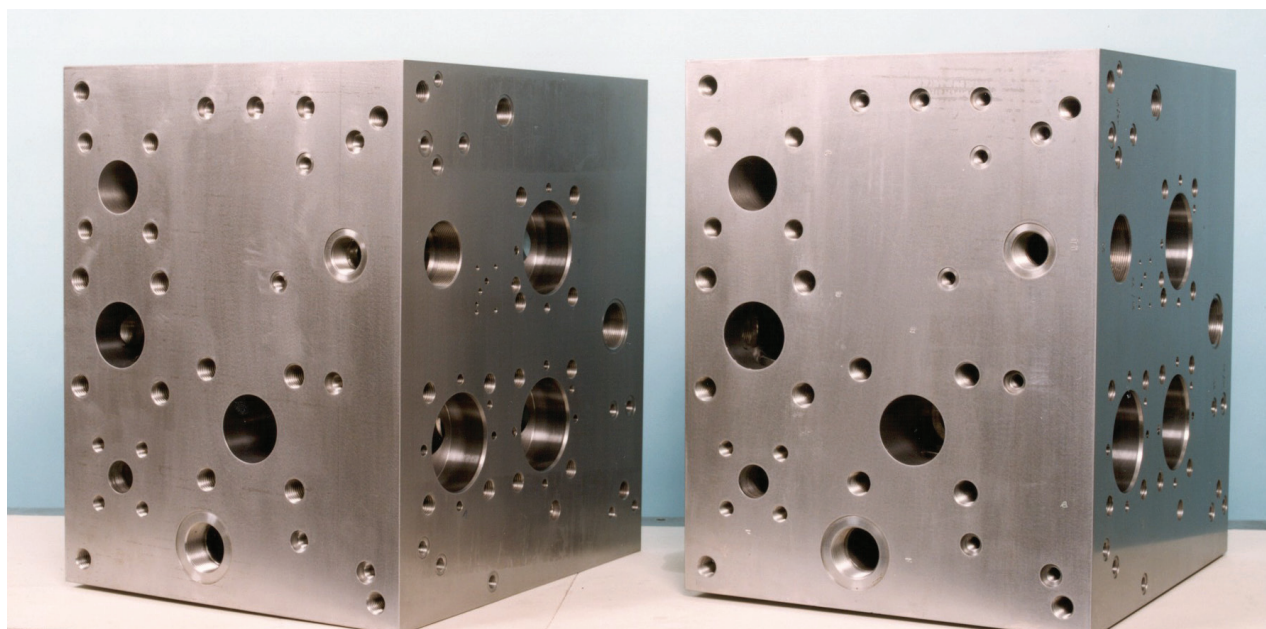




Material Data Sheet HYT 60®



This special structural steel HYT 60® is most suitable for the construction of valves and hydraulic parts because of its excellent machinability on drilling and milling.

Its perfect homogeneity and oil density permits the use even under high pressure. Superfinishing achieves very fine surface roughness, which provides an excellent sealing facing and fitting.



Material Data Sheet HYT 60®

Delivery program

Delivery condition	annealed / controlled cooling, „special heat treatment“
Product	forged, in standard length of 3 - 6 m or single forged

Chemical composition

Reference analysis	C	Si	Mn	P	S
in %	0,33	0,25	1,5	< 0,04	0,2

Mechanical properties in annealed and in controlled cooled condition

				notched impact strength (long. RT DVM)
Dimension	Yield point	Tensile strength	A5 long.	test temperature 20° C
< 250 mm	> 305 N/mm ²	550 - 680 N/mm ²	> 12 %	> 15 J
250 - 400 mm	> 290 N/mm ²	550 - 680 N/mm ²	> 11 %	> 12 J
410 - 700 mm	> 250 N/mm ²	450 - 580 N/mm ²	> 10 %	> 10 J

Hot forming and heat treatment

Forging	850 - 1.200° C	ultrasonical testing acc. to EN 10228-3, grid testing, quality class 2, additional ultra- sonic testing on request
Soft-Annealing	630 - 680° C	

Mechanical properties for „special heat treatment“ condition

				notched impact strength (long. RT ISO V)
Dimension	Yield point	Tensile strength		test temperature 20° C - 20° C
< 250 mm	> 380 N/mm ²	> 550 N/mm ²	> 50 J	> 25 J
250 - 350 mm	> 350 N/mm ²	> 550 N/mm ²	> 40 J	> 23 J

